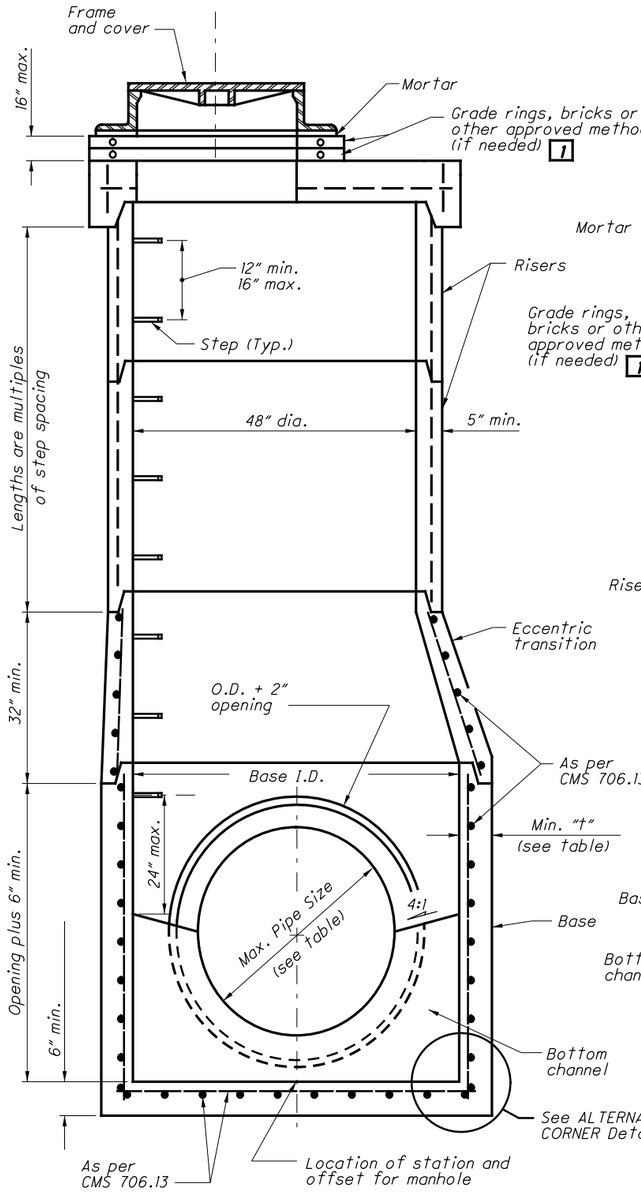
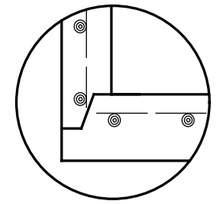
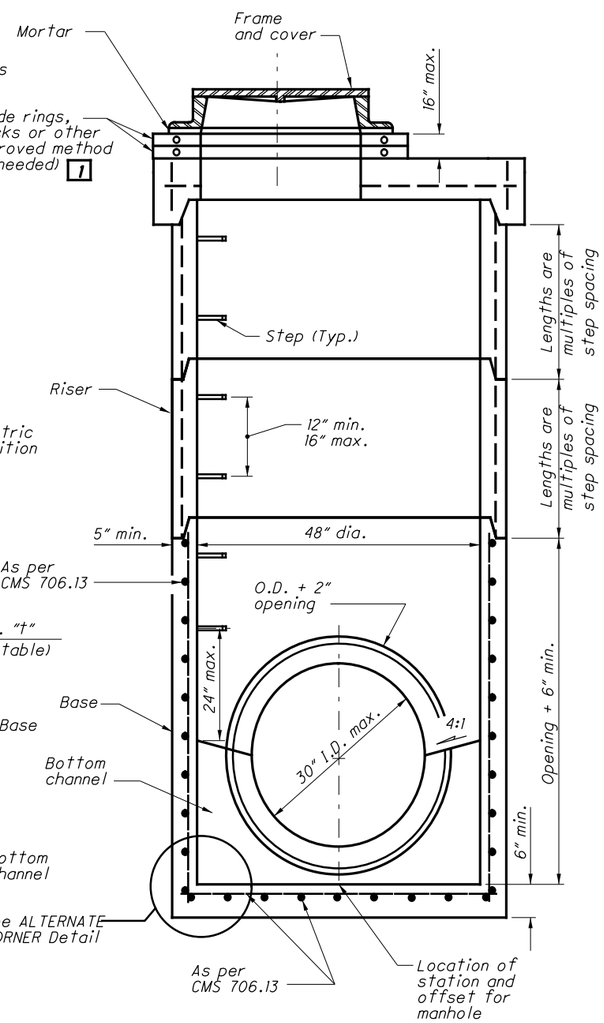


60" to 108" PRECAST BASE

SEE TABLE FOR MAXIMUM PIPE SIZES



ALTERNATE CORNER DETAIL



48" PRECAST BASE

FOR 30" AND SMALLER PIPE

SECTION VIEWS OF REINFORCED PRECAST MANHOLES

NOTES

GENERAL: *With normal soil and site conditions, this standard precast manhole may be used for any required manhole depth. Cast and assemble sections of the precast manhole with either all tongue or all groove ends up. Lift holes may be provided in each section for handling. Leave handling device for the flat slab in place.*

TOP: *Provide a flat slab for this section unless an eccentric cone is specified.*

TRANSITION (OR REDUCER): *This section can be either eccentric cone or flat slab.*

BASE: *Manhole No. 3 is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately. Provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirements. Bottom channels may be formed of concrete, precast in the base or field constructed as shown on* ***SCD MH-1.1 and MH-3.1.***

RISER SECTIONS: *Openings for 18" and smaller inlet pipes may be either prefabricated or cut in the field provided the sides of the pipe at the springline do not project into the manhole.*

CONNECTIONS: *Connections between precast manhole sections and pipes on sanitary sewers may be sealed with resilient connectors conforming to ASTM C 923.*

JOINT SEAL: *Furnish resilient seal between precast manhole sections on sanitary sewers and flexible gasket joints per CMS 706.11.*

OPENINGS: *The maximum pipe opening is the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 601.*

MATERIALS: *Provide materials for bases and other precast sections, including reinforcement not specified here, that meet the requirements of CMS 706.13.*

DROP PIPE: *When specified on the plans, construct drop pipe as shown on* ***SCD MH-3.1.***

STEPS, FRAMES AND COVERS: *Meet the requirements shown on* ***SCD MH-1.1.***

TOP SLAB REBAR: *Use epoxy coated reinforcing steel within the top slab.*

LEGEND

1 *Reconstruction to grade only. Approved materials are kept on file by the Office of Materials Management.*

MAXIMUM PIPE SIZES

BASE I.D.	MIN. "t"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7½"	60"
96"	8"	66"
108"	9"	72"

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

STATE HYDRAULIC ENGINEER

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7-19-02
7-15-05
1-20-06
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1-18-13

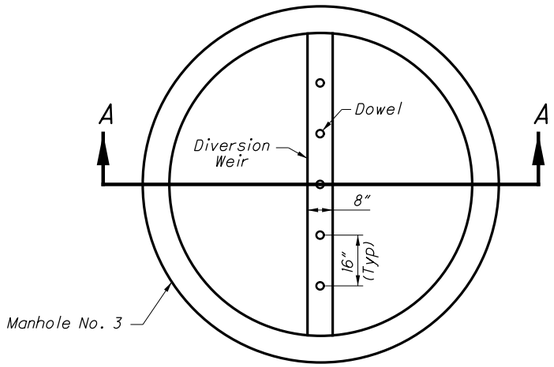
ROADWAY HYDRAULIC ENGINEER
Matt Cozzoli

OFFICE OF HYDRAULIC ENGINEERING

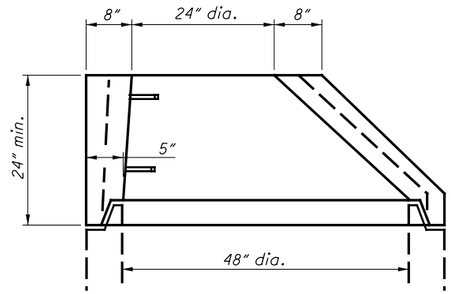
STANDARD HYDRAULIC CONSTRUCTION DRAWING

MANHOLE No. 3

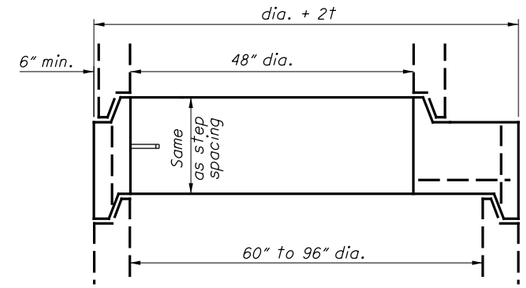
SCD NUMBER
MH-1.2



MANHOLE NO. 3 W/
__" BASE I.D. AND __" WEIR
(NTS)



ALTERNATE
ECCENTRIC CONE TOP
(Only if specified)



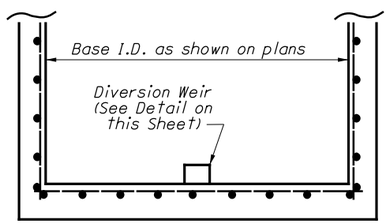
FLAT SLAB TRANSITION

NOTES

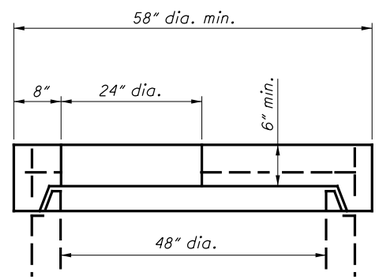
MANHOLE NO. 3 W/__" BASE I.D. AND __" DIVERSION WEIR: Furnish manhole base with precast diversion weir or construct diversion weir from Structural Concrete, 4000 psi compressive strength concrete or Brick and Masonry Units conforming to CMS 611. A bottom channel section for the manhole is not required when a diversion weir is specified on the plans.

Place diversion weir perpendicular to flow of inflowing trunk sewer. Dowel concrete or masonry units into the base of the manhole to a depth of 3" using epoxy coated #4 reinforcing bars. Start dowels at the center of the diversion weir and space 16" on center across the entire weir.

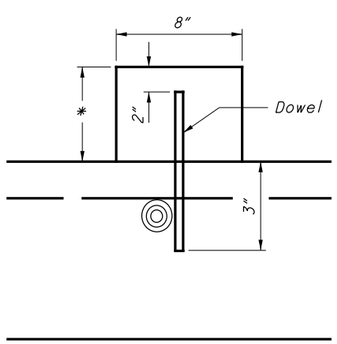
All materials and labor, including excavation and backfill, are paid for at the contract price for **ITEM 611 - MANHOLE NO. 3 WITH __" BASE I.D. AND __" DIVERSION WEIR.**



SECTION A-A
(NTS)

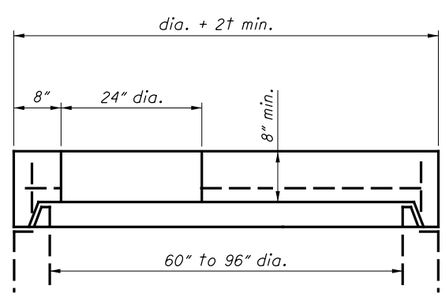


FLAT SLAB TOP



* Furnish weir height as shown in plans.

DIVERSION WEIR DETAIL
(NTS)



FLAT SLAB TOP

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STANDARD HYDRAULIC CONSTRUCTION DRAWING

MANHOLE No. 3

SCD NUMBER
MH-1.2